GYSPOT DRILL
Dépointeuse

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160412 – D8

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DECLARATION OF COMPLIANCE:

GYS certifies that the Gyspot DRILL is manufactured in compliance with the directive 89/392/CEE, amended 2006/42/CEE.

PRECAUTIONS BEFORE USE

In order to avoid risks of injuries, any person who operates, installs, services or changes accessories, as well as any person working in the area of this tool, must read and understand the following instructions.

Air supply

• Compressed air can cause serious injuries.
• Always turn off the air supply and disconnect it before installing, removing or adjusting any accessory on this machine, or before performing any maintenance on this machine.
• Do not point the jet of compressed air at other people or yourself; keep bystanders away while operating the tool.
• Whiplashing hoses may cause serious injuries; check carefully the hoses and fittings for leaks and deteriorations.
• Do not fit quick change couplings onto the machine as vibration can cause the coupling to fail.
• Read the instructions for a proper assembly of the tool
• In case swivel connectors are used, secure them with locking pins.
• Operate the tool at the air pressure indicated in order to ensure maximum durability of the tool
• Manipulate hoses and fittings carefully. Do not force the hose off the air inlet. Keep air hoses away from heat sources, lubricants and sharp materials. Do not use damaged, frayed or deteriorated air hoses and fittings. Be sure all fittings are tightly secured.

Personal safety

• Operators and service personnel must be able to physically manage the tool and follow the appropriate instructions.
• Keep body stance balanced and firm. Vibrations, repetitive motions or uncomfortable positions may be harmful to your hands. If discomfort, tingling feeling or pain occurs; stop using any machine and seek medical advice.
• Use protective equipment such as glasses, gloves, safety shoes as well as acoustic protection.
• This machine has not been designed to be used in an explosive atmosphere environment. Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or petrol.
• Avoid direct contact with the parts in motion when using the tool, to prevent cuts.
• The splitting of a pneumatic tool casing in use may cause serious injuries. The smallest debris can cause eye injuries and lead to blindness.
• Always stay at a suitable distance from the cutters, blades, tools in motion, etc…

Tool use and care

• Do not carry the machine by the hose
• Do not wear watches, ring bracelets or loose clothing when using the tool, and keep long hair away from moving parts.
• For safety, top performance and maximum durability, operate the tool at the recommended air pressure.
• Cutters heat up while in use. Let them cool down before seizing them. Disconnect air supply before changing the cutters.
• Operate the Gyspot DRILL with care to prolong its efficiency in time.
• Do not modify the tool or its accessories

AIR SUPPLY

Getting started:

The compressed air network must be perfectly purged and adapted to the tool's consumption. A filter-lubricator-regulator unit must be installed at a maximum distance of 10m before the tool (except for tools designed for use without lubrication). Its regulating pressure must be set at **7.5 bars** and the oil flow at about 1 drop every 30 seconds for 100L/mn airflow. **Warning !** The air consumption of the tool must absolutely be superior to the minimum priming airflow of the lubricator. A shut-off valve must be installed upstream.

The connection between the filter-lubricator-regulator unit and the tool must be made with a special air supply flexible hose made of rubber or PVC, with a maximum length of 10m and a minimum inside diameter of 8 mm. It must be equipped with a semi-automatic self-closing coupling close to the tool, in order to unplug it easily.

Use:

Exclusively use accessories in perfect condition and matching the specifications of the tool.

Disconnect the tool from air supply before changing the cutters. Check that the cutter is perfectly tightened before using the tool again.

Regularly check the air supply pipes. In case deteriorations or leaks are noticed, proceed to the repair immediately. Broken pipes may cause serious injuries.

Maintenance:

Every day, before use, disconnect the tool from the air line and pour a few of suitable oil through the air intake.

Do not use flammable or volatile liquids such as kerosene, diesel or petrol.

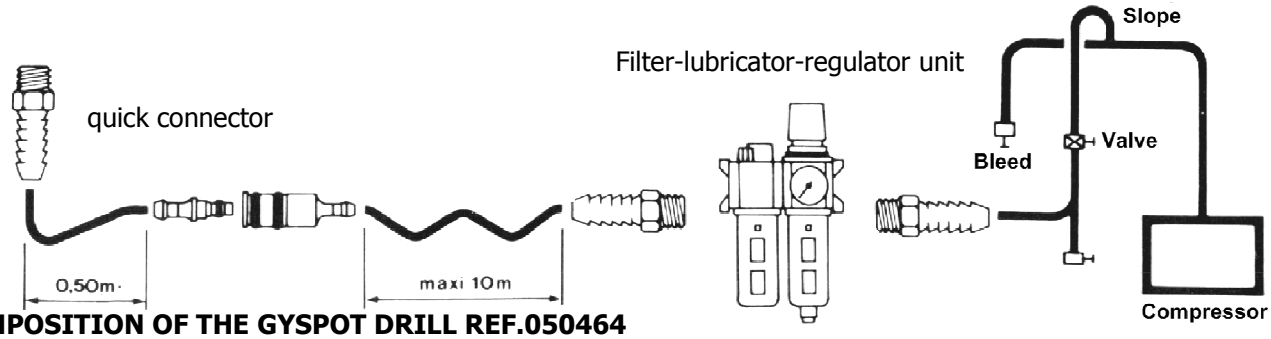
Regularly proceed to check the level of the lubricator, and to bleed the filter and pipes.

Ensure that the air supply fittings, air pipes and hoses, and accessories are in perfect condition.

Regularly bleed the pipes and the tank of the compressor.

Use only genuine spare parts to ensure the maintenance of the tool.

GYS will not be liable it the tool is modified and if general safety instructions regarding air tools are not observed.



COMPOSITION OF THE GYSPOT DRILL REF.050464

- 1 spot weld drill
- 1 swan neck-clamp
- 2 cutters:
  Ø 8mm ref. 053069
  Ø 10mm ref. 053076
- 1 maintenance wrench
- 2 air flow quick connectors
- 1 user manual

OPERATING INSTRUCTIONS

Recommandations :

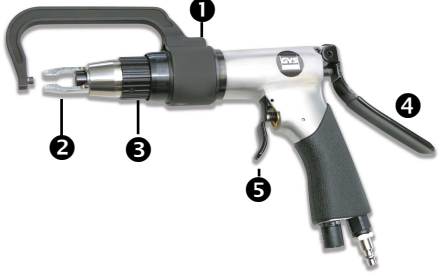
Not recommended

Do not use the spot weld cutters included with another drill; they would be damaged.

Optimal:

Using the GYSPOT Drill will guarantee the longevity of your spot weld drills.

Description



❶ Swan neck -clamp

❷ Support jaws

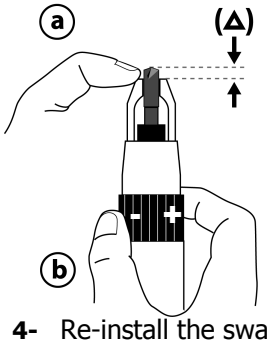
❸ Drill position adjustment wheel (forward / backwards)

❹ Push arm

❺ Throttle trigger

Setting:

1- Remove the Swan neck-clamp ❶
2- Insert the drill and tighten it using the provided wrench
3- Setting the depth of cut:



a. Apply a pressure on the support jaws (a) with your fingers in order to retract them

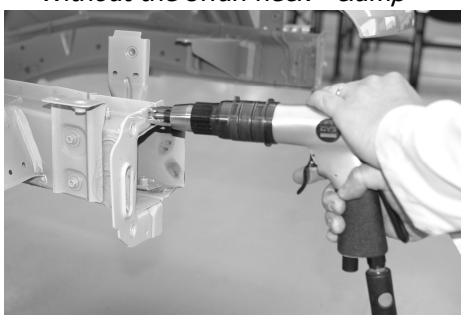
b. Adjust the depth of the cutter with the wheel (b) so that the difference (Δ) between the jaws and the extremity of the cutter match the thickness of the material

4- Re-install the swan neck-clamp
5- Position the Gyspot Drill perpendicularly to the material to be removed.
6- Apply pressure to the push arm to bring the cutter to make contact with the material
7- Pull the throttle trigger to start cutter rotation
8- Once the cut is through, release pressure from the push arm, then release the throttle trigger to stop rotation

Use of the Swan neck-clamp

With the swan neck-clamp

Without the swan neck - clamp



TECHNICAL SPECIFICATIONS

A- Gyspot DRILL

Diameter	8 mm
Rotation speed	800 RPM
Power	400 watt
Length	349 mm
Weight	2,3 kg
Operating noise level	85 dba
Air consumption	140 L/Min
Air pressure	6,5 Bar

B-High-quality cutters (Ø 8 / Ø10)

The quality of the steel sheets on car body is characterised by their resistance and hardness. The resistance is measured with the effort required for bending, tearing, or rupture, and is expressed in MPa. The hardness is measured by the resistance to wear and abrasion, and is expressed in Vickers HV. The great majority of HSS (High Strength Steels) drill bits have similar hardness than these steels, hence causing issues to drill through high resistance steels.

The bits delivered with the Gyspot drill are made of tungsten carbide, which gives them a hardness superior to the modern steels', which is 600 to 800 HV. In addition, a specific coating is added to improve the longevity, hardness up to 3000 HV, and protect against high temperatures (up to 900°C).